

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Withdrawn) A nickel based powdered metallic material comprising in addition to nickel 0 - 4.5 % by weight of copper, 0 - 5.0 % by weight of iron, whereby the total amount of copper and iron is at least 2.5 % by weight, 0.05 - 5.0 % by weight of boron, 1.0 - 4.0 % by weight of silicon, 0.5 - 4.0 % by weight of phosphorus, 0.01-0.5 % by weight of C and less than 2 % by weight of inevitable impurities.
2. (Withdrawn) Material according to claim 1, including copper in an amount of 2.5-4.5 % by weight.
3. (Withdrawn) Material according to claim 1, wherein the powdered metallic material comprises less than 3.0 wt % iron.
4. (Withdrawn) Material according to claim 1 wherein the carbide forming element is selected from the group consisting of chromium, tungsten, molybdenum, vanadium, tantalum, niobium, titanium and zirconium.

5. (Withdrawn) Material according to claim 1, wherein the powdered metallic material comprises 0.05-1.0 % by weight of a carbide forming element.
6. (Withdrawn) Material according to claim 1, wherein the powdered metallic material comprises 1.0 - 5.0 % by weight of carbide forming element.
7. (Withdrawn) Material according to claim 1, wherein the powdered metallic material comprises 0.6 - 1.6 % boron and 1.6 - 3.5 % silicon.
8. (Withdrawn) Material according to claim 1, wherein the powdered metallic material comprises 1.5 - 3.0 wt % phosphorous.
9. (Withdrawn) Material according to claim 1, wherein the powdered metallic material comprises 0.01 - 0.5 % by weight of carbon.
10. (Withdrawn) Material according to claim 1, wherein the powdered metallic material is a homogenous alloy.
11. (Withdrawn) Material according to claim 1, wherein the powdered metallic material is a gas atomized powder or a water atomized powder.

12. (Currently amended) A method of forming a wear resistant surface coating on a cast iron substrate, comprising the steps of:

providing a nickel based powdered metallic material comprising in addition to nickel 0 - 4.5 % by weight of copper, 0-5.0 % by weight of iron, whereby the total amount of copper and iron is at least 2.5 % by weight, 0.05-5.0 % by weight of a carbide forming element, 0.5-2.0 % by weight of boron, 1.0-4.0 % by weight of silicon, 0.5-4.0 % by weight of phosphorus, 0.01-0.5 % by weight of C and less than 2 % by weight of inevitable impurities, and

applying and melting at least one layer of the powdered metallic material onto the substrate by means of thermal coating, whereby formation of carbide occurs on the surface of the substrate.

13. (Original) The method according to claim 12, wherein thermal coating includes the use of powder welding or plasma transferred arc welding.

14. (Currently amended) The method according to claim ~~1~~ 12, wherein the thermal coating includes the use of equipment providing a fusing temperature of 850-910°C.

15. (Withdrawn) Material according to claim 2, wherein the powdered metallic material comprises less than 3.0 wt % iron.

16. (Withdrawn) Material according to claim 2, wherein the powdered metallic material comprises 0.05-1.0 % by weight of a carbide forming element.

17. (Withdrawn) Material according to claim 2, wherein the powdered metallic material comprises 1.0 - 5.0 % by weight of carbide forming element.

18. (Withdrawn) Material according to claim 2, wherein the powdered metallic material comprises 0.6 - 1.6 % boron and 1.6 - 3.5 % silicon.

19. (Previously presented) The method according to claim 12 wherein said substrate is preheated to a temperature in the range of 300-800°C prior to said applying and melting said at least one layer of the powdered metallic material onto the substrate.

20. (Canceled)

21. (New) The method according to claim 12, wherein the nickel based powdered metallic material comprises 0.05-1.0 % by weight of the carbide forming element.

22. (New) The method according to claim 12, wherein the nickel based powdered metallic material is a gas atomized powder or a water atomized powder.

23. (New) The method according to claim 12, wherein the powdered metallic material comprises 0.6 - 1.6 % boron and 1.6 - 3.5 % silicon.

24. (New) The method according to claim 12, wherein the powdered metallic material comprises 1.5 - 3.0 wt % phosphorous.

25. (New) The method according to claim 12, wherein the nickel based powdered metallic material is a gas atomized powder or a water atomized powder.

26. (New) A method of forming a wear resistant surface coating on a substrate, comprising:

providing a nickel based powdered metallic material comprising nickel, 0-4.5 % by weight of copper, 0-5.0 % by weight of iron, the total amount of copper and iron being at least 2.5 % by weight, 0.05-5.0 % by weight of a carbide forming element, the carbide forming element including at least chromium, 0.5-2.0 % by weight of boron, 1.0-4.0 % by weight of silicon, 0.5-4.0 % by weight of phosphorus, 0.01-0.5 % by weight of C, and inevitable impurities; and

applying and melting at least one layer of the powdered metallic material onto the substrate by thermal coating, whereby carbide forms on the surface of the substrate.

27. (New) The method according to claim 26, wherein the nickel based powdered metallic material consists essentially of nickel, 0-4.5 % by weight of copper, 0-5.0 % by weight of iron, whereby the total amount of copper and iron is at least 2.5 % by weight, 0.05-5.0 % by weight of the carbide forming element, 0.5-2.0 % by weight of boron, 1.0-4.0 % by weight of silicon, 0.5-4.0 % by weight of phosphorus, 0.01-0.5 % by weight of C, and inevitable impurities.

28. (New) The method according to claim 26, wherein the carbide forming element is free of molybdenum.

29. (New) The method according to claim 26, wherein the carbide forming element consists essentially of chromium.

30. (New) The method according to claim 26, wherein the nickel based powdered metallic material comprises 0.05-1.0 % by weight of the carbide forming element.